

KAURKOVSKIY, V.I.

Thermographic data on the genetic relation between "red"  
ores and siderites in the Krivoy Rog Basin. Nauch.dokl.  
vys.shkoly; geol.-geog.nauki no.2:66-69 '59. (MIRA 12:8)

1. Krivorozhskiy gornorudnyy institut.  
(Krivoy Rog Basin--Siderite) (Krivoy Rog Basin--Limonite)

KAURKOVSKIY, V.I., dotsent, kand. khim. nauk

Mineralizing action of hydrogen sulphide on the processes of  
siderite oxidation. Sbor. nauch. trud. KGTI no.10:51-54 '61  
(MIRA 17:8)

KAURKOVSKIY, V.I.

Universal automatic thermoregulator. Prib. i tekhn. eksp. 9  
no.4:195-196 JI-Ag '64. (MIRA 17:12)

1. Dnepropetrovskiy metallurgicheskiy institut.

KAUROV, I. A.

KAUROV, I. A. -- "Results of the Introduction of Far Eastern Tree and Shrub Breeds in Leningrad Rayon." Min Higher Education USSR, Leningrad Order of Lenin Wood-Technical Acad imeni S. M. Kirov, Leningrad, 1955 (Dissertation For the Degree of Candidate in Agricultural Sciences)

SO: Knizhnaya letopis', No. 37, 3 September 1955

MAURIN', A.M.; KAUROV, I.A.

Comparative methods for determining the viability of tree pollen.  
Bot.zhur.41 no.1:81-84 Ja '56. (MLRA 9:6)

1.Leningradskaya ordena Lenina lesotekhnicheskaya akademiya imeni  
S.M.Kirova. (Pollen)

KAUROV, I.A.

A comparison of the viability of the pollen of certain trees of  
the Far East during a 24-hour period. Bot.shur. 42 no.2:276-280  
P '57. (MIRA 10:3)

1. Leningradskaya ordena Lenina lesotekhnicheskaya akademiya im.  
S.M. Kirova.

(Soviet Far East—Trees) (Pollen)

KAUROV, I.A.

Pollen and seed quality of introduced Far Eastern arboreal species. Bot.zhur. 44 no.8:1162-1170 Ag '59. (MIRA 13:2)

1. Tsentral'nyy Botanicheskiy sad AN BSSR, Minsk.  
(Pollen) (Trees) (Plant introduction)

KAUROV, I.A.

Some medicinal woody plants in the flora of China. Sbor.  
nauch. rab. TSRC no.1:108-113 '60. (MIRA 14:10)  
(CHINA--BOTANY, MEDICAL)



KAUROV, I.A.

Botanical and pharmacological research in the Chinese People's  
Republic. Sbornik bot. rab. Bel. otd. VBO no.2:235-243 '60.

(MIRA 15:1)

(China--Botanical research) (China--Pharmaceutical research)

KAUROV, I.A.; ANTIPOV, V.G.

Large specimen of the Weymouth pine in Leningrad Province.

Biul. Glav. bot. sada no. 38:95-96 '60.

(MIRA 14:5)

1. Botanicheskiy sad AN Belorusskoy SSR, Minsk.  
(Leningrad Province--Pine)

KAUROV, I.A.

Results of the introduction of Far Eastern tree and shrub species  
in the Leningrad region. Biul. Glav. bot. sada no.41:3-11 '61.  
(MIRA 14:11)

1. Botanicheskiy sad AN Belorusskoy SSR, Minsk.  
(Leningrad region--Plant introduction)  
(Leningrad region--Trees)  
(Leningrad region--Shrubs)

KAUROV, I.A.; VAKULA, V.S.

Effect of gibberellin on the germination of pollen in woody plants. Bot. zhur. 46 no.8:1125-1133 Ag '61. (MIRA 15:1)

1. Tsentral'nyy botanicheskiy sad AN Belorusskoy SSR, Minsk.  
(Woody plants)  
(Gibberellin—Physiological effect)

KAUROV, I.A.

Natural habitats of *Polygonum sachalinense* and *P. Weyrichii*.

Sbor. nauch. rab. TSBS no.2:154-158 '61.

(MIRA 15:7)

(*Polygonum*)

KAUROV, I.A.; VAKULA, V.S.

Effect of gibberellin on pollen germination and the growth of  
pollen tubes of woody plants. Sbor. nauch. rab. TSBS no.2:14-24  
'61. (MIRA 15:7)

(Woody plants) (Gibberellin) (Pollen)

KAUROV, I.A.; VAKULA, V.S.

Effect of gibberellic acid on the dynamics of pollen germination  
of woody plants. Bot.; issl. Bel. otd. VBO no.5:181-184 '63.  
(MIRA 17:5)

KAUROV, I.A.; CHEKALINSKAYA, I.I.; YAKIMOVSKAYA, L.F.

Polygonum weyrichii as a promising silage crop for White Russia.  
Rast. res. 1 no.1:115-118 '65. (MIRA 18:6)

1. Institut eksperimental'noy botaniki i mikrobiologii AN BSSR  
i TSentral'nyy botanicheskiy sad AN BSSR, Minsk.



L 02958-67 EWT(1)

ACC NR: AP6032010

SOURCE CODE: UR/0115/66/000/009/0090/0091

AUTHOR: Kaurov, L. D.

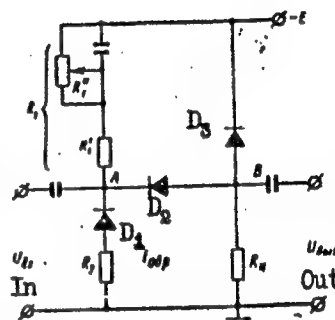
ORG: none

TITLE: Compensation of the temperature drift of threshold voltage of a diode limiter

SOURCE: Izmeritel'naya tekhnika, no. 9, 1966, 90-91

TOPIC TAGS: diode limiter, semiconductor limiter, voltage limiter, semiconductor diode, *VOLTAGE REGULATOR, PULSE AMPLITUDE*

ABSTRACT: Appreciable error is encountered in voltage limiters due to temperature drift of their threshold voltage. A circuit (see figure) is suggested for reducing the drift. The variation of threshold voltage caused by a shift in the I-V characteristic of limiter diode  $D_2$  is compensated by the action of diodes  $D_1$  and  $D_3$ . Although complete elimination of the drift is impossible (because the reverse-current variation is nonlinear while the shift of the forward branch of the I-V characteristic is linear), nevertheless an appreciable compensation can be achieved. Experimental results for a temperature variation of 22--62°C: diode D102A, threshold voltage



Card 1/2

UDC: 621.382.2.088.6

L 02958-67

ACC NR: AP6032010

(pulse amplitude) without compensation, 40--76 v; with compensation, 46--56 v; diode D18, without compensation, 42--106 v; with compensation, 33--36 v. Orig. art. has: 2 figures, 12 formulas, and 1 table.

SUB CODE: 09 / SUBM DATE: none / ATD PRESS: 5099

Card 2/2 *LC*

L 44010-66 EWT(1)

ACC NR: AP6026955

SOURCE CODE: UR/0115/66/000/007/0094/0095

AUTHOR: Kaurov, L. D.

ORG: none

TITLE: Measuring d-c amplifier *15*

SOURCE: Izmeritel'naya tekhnika, no. 7, 1966, 94-95

TOPIC TAGS: electronic amplifier, dc amplifier

ABSTRACT: A simple modem d-c amplifier intended for industrial applications is briefly described. Its modulator is designed with two silicon diodes connected in a half-wave circuit which brings the input impedance of the modulator to about 1 Mohm. A transistorized asymmetrical multivibrator serves as a source of the modulating voltage. The pulsed amplifier is designed with two electron tubes; to keep the amplifier output impedance low, a cathode follower is provided. Two versions of the d-c amplifier were built: with a 0--30  $\mu$ amp range (10 kohms) and with a 0--250  $\mu$ amp range (1.2 kohms). Other data: input impedance, 2 Mohms; modulator conversion factor, 0.9 for the 30  $\mu$ amp range and 0.6 for the 250  $\mu$ amp range; gain, 300; maximum output voltage, 100 v; output ripple, 60--80 mv; time constant, 0.2 sec; zero-point temperature drift, 10--12  $\mu$ v per degree. Orig. art. has: 2 figures and 2 formulas.

SUB CODE: 09 / SUBM DATE: none / ORIG REF: 000 / ATD PRESS: 5070

[03]

Cord 1/1 *14/ LC*

UDC: 621.375.024

TEMNIKOVA, T.I.; KAUROV, O.A.

Cyclic acetals of hydroxy carbonyl compounds. Part 16: Methyllactolides  
of ring-substituted ethylbenzoylcarbinols. Zhur.ob.khim. 34 no.2:386-  
390 F '64. (MIRA 17:3)

1. Leningradskiy gosudarstvennyy universitet.

TEMNIKOVA, T.I.; KAUROV, O.A.

Interaction of sodium methylate in a methyl alcohol solution with  
 $\alpha$ -halo ketones of the fatty-aromatic series. Zhur.ob.khim. 34 no.2:  
707 F '64. (MIRA 17:3)

1. Leningradskiy gosudarstvennyy universitet.

TEMNIKOVA, T.I.; KAUROV, O.A.

Cyclic acetals of hydroxycarbonyl compounds. Part 17: Reaction of sodium methylate with  $\alpha$ -halo ketones containing different substituents in the benzene ring. Zhur. ob. khim. 34 no.10: 3165-3168 O '64. (MIRA 17:11)

1. Leningradskiy gosudarstvennyy universitet.

PRIBOCHENKO, S.K. [deceased]; ZHIVOV, M.A.; KAUROV, S.A.; YERESNOV, N.I.,  
red.; SAMSONOV, V.M., red.izd-va; VOIKOV, S.V., tekhn.red.

[Tables for calculating wages of truck drivers and municipal  
sanitation workers paid according to a piece-rate system]  
Tablitsy dlia raschetov zarabotnoi platy shoferov i rabochikh-  
sdel'shchikov po sanitarnoi ochistke gorodov. Moskva, Izd-va  
M-va kommun.khoz.RSFSR, 1958. 538 p. (MIRA 13:1)  
(Wages) (Refuse and refuse disposal)

KAUROV, V.; TAVEROVSKIY, Ya.

Repairing the electric heat indicator of oil pressure gauges. Avt.  
transp.33 no.9:29 8'55. (MLRA 8:12)

(Automobiles--Apparatus and supplies) (Pressure gauges)



SOKOLOVSKIY, M.V.; KAUROV, V.V.; PYATNITSKIY, A.A., prof.,  
retsensent; PELEVIN, N.N., inzh., red.; TIKHANOV, A.Ya.,  
tekhn. red.

[Manufacture of cylindrical reducers for general use]  
Proizvodstvo tsilindricheskikh reduktorov obshchego naz-  
nachenia. Moskva, Mashgiz, 1963. 169 p. (MIRA 17:2)

BOYKO, L.S.; SOKOLOVSKIY, M.V.; FEY, V.M.; YANKOVSKIY, I.Ye.;  
GUMENNYI, V.N.; KAUROV, V.V.; PYATNITSKIY, A.A.;  
CHASOVNIKOV, L.D., dots., retsenzent

[Reducing and variable speed gears; atlas of designs]  
Reduktory i variatory; atlas konstruktsii. Moskva,  
Mashinostroenie, 1964. 95 p. (MIRA 17:11)

KAUROVA, A.S.

STRUCTURE AND PHYSICAL PROPERTIES OF MATTER IN A LIQUID STATE  
reports read at the 4th Conference convened in KIYEV from 1 to 5 June  
1959, published by the publishing House of KIYEV University, KIYEV,  
USSR, 1962

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M.S. PESIN and I.I. FABELINSKIY, Fine Structure of the Molecular Light Scatter Line and the Propagation of Ultrason in Liquids	15
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ROSHCHINA, G.P.; KAULOVA, A.S.

Use of the light scattering method in studying fluctuations in  
nonaqueous electrolyte solutions. Ukr. fiz. zhur. 9 no.5:512-521  
May '64. (MIRA 17:9)

1. Kiyevskiy gosudarstvennyy universitet.

KAUROVA, Ye.

COUNTRY : USSR  
CATEGORY :

C-3

ABST. JOUR. : RZBiol., No. 19, 1958, No. 87340

AUTHOR : Kaurova, Ye.  
INST. : Moscow Agricultural Academy Ineni \*  
TITLE : Phomosis of Carrots (Source of Infection).

ORIG. PUB. : Sb. stud. nauchno-issled. rabot Mosk. s.-kh.   
akad. im. K.A. Timiryazeva, 1958, No 8, \*\*

ABSTRACT : As possible sources of infection of seed-  
plants and plantings of carrots, with phomosis (Phoma  
posttrupii), were tested, under laboratory- and under  
natural conditions, some weeds of the family of Umbel-  
liferae. Ph. posttrupii was used to infect flowering plants  
of Aegopodium podagraria L., Angelica silvestris L., and  
Anethum graveolens L. Controls -- Daucus carota L. The  
infection was most strongly manifested on stems of  
A. silvestris. -- G. A. D'yakova.

CARD: \* K. A. Timiryazev.  
\*\* 264-267

KATYREV, A.Ye.; KAUITSBY, N.V.; KOZLOVSKIY, A.I., doktor sel'skokhozyaystvennykh nauk; KRASIKOV, Z.D., dotsent, kandidat sel'skokhozyaystvennykh nauk; SOBOLEVSKAYA, K.A.; LYKOV, M.S., redaktor; LISINA, V.M., tekhnicheskiiy redaktor

[Experience in cultivating corn; based on papers at a province conference] Opyt vosdelyvaniia kukurusy; po materialam oblastnoi konferentsii [Novosibirsk] Novosibirskoe kn-vo, 1956. 226 p.

(MLR 9:12)

1. Novosibirskiy sel'skokhozyaystvennyy institut (for Krasikov)  
(Corn (Maize))

ACCESSION NR: AP4031750

Z/0034/64/000/004/0296/0296

AUTHOR: Unterschutz, Z. (Engineer); Narusiewicz, E. (Engineer); Kaus, T.

TITLE: Method for cleaning slag and other impurities from metal surfaces and equipment for use with this method

SOURCE: Hutnicke listy, no. 4, 1964, 296

TOPIC TAGS: cleaning, weldability, electric arc, welding transformer, electric arc electrode, metal oxide

ABSTRACT: The invention permits the heat cleaning of a metal surface by an electric arc while at the same time removing slag and other impurities by a cleaning device forming one electrode of the electric arc, the other electrode being the metal surface to be cleaned. The invention is shown in diagram 1. Two plates 4 are set up on shaft 8. The drum formed in this way carries on the longitudinal rods 3 hooked up in its circuit the loosely attached plates 2 which are the working elements cleaning the metal surface 1. The required current is fed from welding transformer 5 via 9 to brush 6 and ring 7 which

Cord 1/3

ACCESSION NR: AP4031750

is securely fixed to shaft 8. The other pole of the power supply is connected by conductor 10 directly to the metal part whose surface is to be cleaned. The alternating action of the electric arc makes possible rapid heat transfer which permits rapid separation and evaporation of the impurities and slag from the metal surfaces. Because the different substances have different rates of thermal expansion, they separate completely. Under the effect of high temperatures, metal oxides and other protective coatings are formed on the metal surfaces. This condition makes impossible the successive rewelding of the liberated impurities. [Complete translation]

ASSOCIATION: none

SUBMITTED: 07Jun61

DATE ACQ: 28Apr64

ENCL: 01

SUB CODE: MM

NO REF SOV: 000

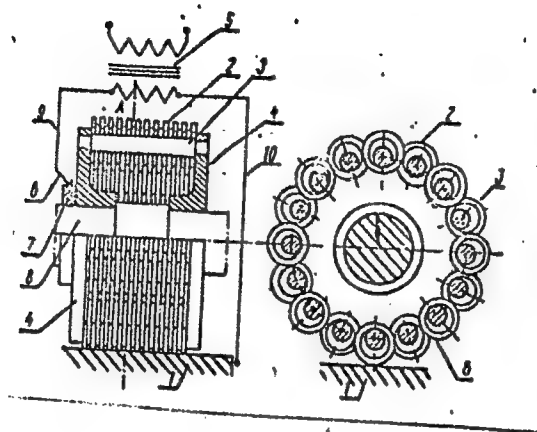
OTHER: 000

Card 2/3



ACCESSION NR: AP4031750

ENCLOSURE: 01



Card 3/3

3463 KAUS, Z. F.

Organizatsiya rabochego mesta overlochnitsy na konveyerr. (Kosinskaya  
trkotazhnaya fabrika) (M., 1954) 4 s. s ill. 20 sm. m-vo prom-sti tovarov  
shipokogo potrebleniya SSSR. tekhn upr. otd tekhn informatsii obmen  
peredovyn opytom) 2.000 ekz. bespl. sost. ukazan v kontse teksta  
(54-57339) 677.661.02:687.1): 658.5

KAUSAY, Tibor, okleveles mernok

Improving concrete design and granular structure by means of  
nomograms. Melyepitestud szemle 15 no.1:42-44 Ja '65.

1. Central Research Institute of Building Materials Industry,  
Budapest.

ROMASHOV, F.N.; KAUSEV, I.S.; TEREENT'YEVA, L.M.; NISNEVICH, E.D.; SHPUCA, O.G.

Use of isolated coronary perfusion for the suturing of atrial  
septal defects under moderate hypothermia. Khirurgiia no.10:43-48  
'64. (MIRA 18:8)

1. Otdeleniye vrozhdennykh porokov (zav. V.I.Burakovskiy),  
laboratoriya anesteziologii (zav. G.A.Ryabov), laboratoriya  
funktional'noy diagnostiki (zav. G.G.Gel'shteyn) Instituta  
serdechno-sosudistoy khirurgii (dir. - prof. S.A.Kolesnikov,  
nauchnyy rukovoditel' - akademik A.N.Bakulev) AMN SSSR, Moskva.

RIFMAN, L.B.; GUDYM, A.R.; FLAKSMAN, B.Ye.; KAUSH, I.G.

Carbonate-concrete products made of waste products from obtaining  
limestone. Stroi.mat. 8 no.10:26-29 0 '62. (MIRA 15:11)  
(Limestone) (Concrete products)

KAUSHAKIS, P.Yu.

Using photographic plans on a scale of 1:10,1000 enlarged to  
a scale of 1:5,000 in planning drainage systems. Geod. i kart.  
no.6:60-63 Je '60. (MIRA 13:7)  
(Drainage) (Aerial photogrammetry)

KAUSHANSKAYA, B. YE.; ROSENTAL', K. M.; SAPOZHMIKOVA, V. A.;  
SINITSKIY, A. A.; ANSHELES, M. M.; GRIGOR'YEVA, N. G.; KACHANSKAYA, YE. S.

"Experience of active immunization against measles."

Report submitted at the 13th All-Union Congress of Hygienists,  
Epidemiologists and Infectionists. 1959

ACC NR: AT6027156

(A)

SOURCE CODE: UR/3214/66/000/003/0103/0112

AUTHOR: Flaumenbaum, B. L. (Docent); Chervyakova, K. I. (Candidate of biological sciences); Nguyen Van N'yt (Aspirant); Valyavskaya, M. Ye. (Engineer); Kaushanskaya, L. Z. (Engineer); Storozhuk, V. N. (Engineer); Terletskaya, L. A. (Engineer); Faynberg, S. G. (Engineer)

ORG: none

TITLE: Search for new operating conditions in sterilization of canned goods for projected continuously operative equipment

SOURCE: Ukraine. Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya. Pishchevaya promyshlennost', no. 3, 1966, 103-112

TOPIC TAGS: food technology, food preservation, food sterilization, applied mathematics, food product machinery, processed plant product

ABSTRACT: New operative conditions for sterilizing tomato juice in an Odessa factory were worked out at the Odessa Technological Institute for the Food and Refrigeration Industry, based on a continuous operation (see Figure 1) with successive heating and cooling of 0.5 and 0.2 liter bottles filled with juice at 80-85 C and immersed in water of various temperatures. The sterilization temperatures tested were 100, 95, and 92 C. Temperatures in the bottle center were measured with a thermocouple. The

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ACC NR: AT6027156

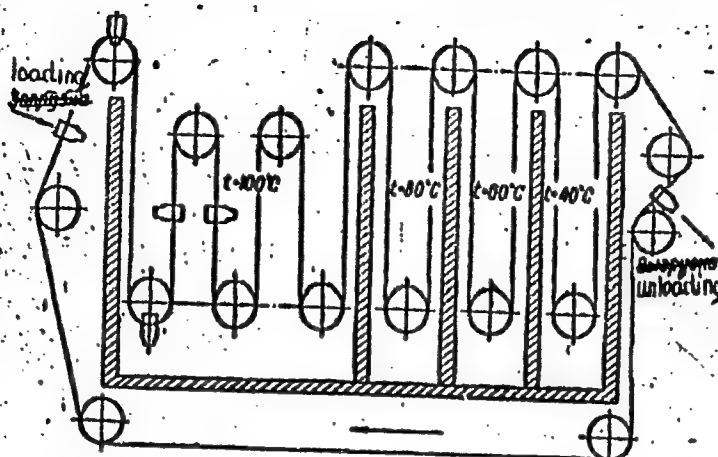


Figure 1. Schematic representation of continuous sterilization

data were mathematically processed according to Flaumenbaum, B. L. (Pishchevaya tekhnologiya, 3, 1959). Earlier studies on survival of microorganisms in tomato juice were also considered. The formulas arrived at were experimentally tested. The general formula applied was

$$A = \psi(K_{A_1} + K_{A_2} + K_{A_3} + \dots + K_{A_n})$$

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ACC NR: AT6027156

CIA-RDP86-00513R000721210012-5"

where  $A$  is the sterilizing effect,  $\tau_p$  is the time interval during which temperature in the bottle center is recorded,  $K_A$  is the peroxidizing coefficient. The value of  $A$  was found a reliable indicator for sterilization, preferable to that of the "heat number". Earlier tests had determined 25 min for 90 C or 15-20 min for 95 C. New tests found that the same  $A$  effect could be obtained 16% faster at 100 C for the 0.5 liter bottle and 10% faster for the 0.2 bottle at the same temperature. For the other temperatures, sterilization time figures were comparable to or higher than the older ones. Microbiologic tests of the sterilization formulas with juice infected with *Penicillium glaucum*, *Aspergillus niger*, yeasts and *Bac. mesentericus ruber*, then sterilized according to formula and kept at room temperature for 3 months or at higher temperatures for 5-8 days, gave satisfactory results. The formulas worked out are given for 100, 95 and 92 C and for the 2 sizes of bottles. Thus for 0.2 liter bottles the formula is 0-30-5-5-5/100 C, where the first figure indicates that the sterilization process proper is starting, the second gives the sterilization period, and the third, fourth and fifth give stepwise cooling in water baths of 80, 60 and 40 C. It was concluded that the formulas found had been proved reliable in microbiological tests. Orig. art. has: 10 figures and 8 formulas.

SUB CODE: 06, 13/ SUBM DATE: none/ ORIG REF: 004/ OTH REF: 001

Card 3/3

FLEUMENBAUM, B.L.; VALYAVSKAYA, M.Ye.; KAUSHANSKAYA, L.Z.; YURCHENKO, S.I.

Application of the mathematical analysis in the development of  
new systems of canned food sterilization. Kon.i ov.prom. 17  
no.11:14-18 N '62. (MIRA 15:11)

1. Odesskiy tekhnologicheskii institut pishchevoy i kholodil'noy  
promyshlennosti.  
(Food, Canned--Sterilization)

FLAUMENBAUM, B.L.; VALYAVSKAYA, M.Ye.; KAUSHANSKAYA, L.Z.; TERLETSKAYA, L.A.;  
PISACHENKO, A.I.

Degree of irregularity in the thermal processing of canned food  
during sterilization. Izv. vys. ucheb. zav.; pishch. tekhn. no.2:  
87-92 '63. (MIRA 16:5)

1. Odesskiy tekhnologicheskii institut pishchevoy i kholodil'noy  
promyshlennosti, kafedra tekhnologii konservirovaniya.

FLAUMENBAUM, B.L.; VALYAVSKAYA, M.Ye.; KAUSHANSKAYA, L.Z.

Sterilization of canned meat at a temperature of 130° C.  
Kons.i ov.prom. 17 no.12:21-22 D '62. (MIRA 15:12)

1. Odesskiy tekhnologicheskii institut pishchevoy i kholodil'noy  
promyshlennosti.

(Meat, Canned—Sterilization)

POSPELOV, G.L.; KAUSHANSKAYA, P.I.; LAPIN, S.S.

Genesis of vein-type and breccia-type mineral formations outside  
fissures. Geol. rud. mestorozh. no.2:45-56 Mr-Apr '61.  
(MIRA 14:5)

1. Sibirskoye otdeleniye AN SSSR.  
(Mineralogical chemistry)

KAUSHANSKAYA, P.I.

Changes of electropotentials in places of the formation of  
fissure-free sorptive veins; experimental data. Geol. i  
geofiz. no.6:96-100 '63. (MIRA 19:1)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR,  
Novosibirsk. Submitted February 4, 1963.

POSTNIKOV, G.I.; RACHMANOVA, F.I.

Deformation of rocks caused by the growth of crystals in them during counter diffusion of reagents (experimental data). Geol. i geofiz. no. 9:55-58, '65. (MIRA 13:8)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

SARATOVKIN, D.D.; KULIKOV, V.A.; KAUSHANSKAYA, P.I.

Stereoscopic observations of skeletal and dendritic forms of  
crystal growth. Izv. TPI 95:206-216 '58. (MIRA 14:9)

1. Predstavleno professorom doktorom A.A.Vorob'yevym.  
(Crystals--Growth)



POSPELOV, G.L.; KAUSHANSKAYA, P.I.; SARATOVKIN, D.D.

Formation of crystalline "veins-walls" at the frontal encounter of  
the diffusion of reagents. Zap. Vses.min.ob-va 90 no.4:382-390  
'61. (MIRA 14:9)

1. Sibirskoye otdeleniye AN SSSR.  
(Crystals--Growth) (Diffusion)

POSPELOV, G. L.; KAUSHANSKAYA, P. I.

Stages in the development and types of fissure-free vein formation; modeling of stockwork ore deposits. Geol. i geofiz. no.9: 41-47 '62. (MIRA 15:10)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

(Ore deposits)

BUKHNY, A.F.; KAUSHANSKAYA, P.V.

Late congenital brittleness of bones in a 17-year-old patient.  
Ortop., travm. i protez. 21 no.8:74 Ag '60. (MIRA 13:11)

1. Iz khirurgicheskogo otdeleniya bol'nitsy No.2 (glavnyy vrach -  
Ya.M.Klyavin) g.Klin.  
(BONES—DISEASES)

**AUTHOR:** Kaushanskiy, A.S., Engineer SOV/122-59-6-13/27

**TITLE:** The Design of Plant for the Continuous Casting of Steel

**PERIODICAL:** Vestnik mashinostroyeniya, 1959, Nr 6, pp 44-47 (USSR)

**ABSTRACT:** Over 20 pilot plant installations for the continuous casting of steel operate outside the Soviet Union, producing round, square and flat sections mainly in alloy steels melted in electric furnaces with a capacity between 1.5 and 10 tons. 4 plants supplied from ladles of 30-ton capacity at a rate of up to 40 t/h operate in Canada, West Germany, France and Italy. Vertical installations with a continuous withdrawal of the ingot sliding relative to the walls of the crystalliser operate in the Soviet Union in the Novo-Tul'skiy, "Krasnoye Sormovo," imeni Pervogo Maya and Kirovskiy Works in Leningrad and an experimental installation at the TsNIChERMET Institute. A continuous single-unit pilot plant installation at the Novo-Tul'skiy Metallurgical Works is intended for ingots of rectangular cross-section between 150 x 300 and 200 x 600 mm and square cross-section between 150 x 150 and 350 x 350 mm. The square cross-sections can be simultaneously cast in two crystallisers (in a single unit).

Card1/4

The Design of Plant for the Continuous Casting of Steel SOV/122-59-6-13/27

Carbon and transformer steels melted in open-hearth furnaces of 10-ton capacity and a converter of 7-ton capacity or an electric furnace of 5-ton capacity are worked at an output rate of 16-53 tons per "hot" hour. In the full-scale twin-unit installation of the "Krasnoye Sormovo" Works, ingots of 175 x 420 mm of carbon steel (usually killed) are worked from open-hearth furnaces at an output of about 50 t/h. A typical vertical installation has an intermediate pouring trough filled from a ladle. On reaching the required level, the steel proceeds into a water-cooled crystalliser where it rapidly solidifies on the surface forming the walls and bottoms of the ingot. When a certain level in the crystalliser is reached, the drawing out rollers are set in motion and withdraw the ingot from the crystalliser. The ingot slides past the crystalliser walls. On leaving the crystalliser, the ingot is further water-cooled and the fully solidified ingot is oxygen-cut into lengths which drop onto a transporting conveyor. The main features of

Card2/4

SOV/122-59-6-13/27  
The Design of Plant for the Continuous Casting of Steel

several installations scheduled for erection in 1959-1960 are listed in the table. Some details of the design of future installations are illustrated in Figures 2, 3 and 4 and described. Figure 2 shows a continuous casting installation for slabs of medium cross-section of carbon and transformer steel melted in 80-ton capacity electric furnaces. A two-unit design with simultaneous casting of two ingots has been chosen. The crystalliser is a bottomless water-cooled mould consisting of four wall blocks bolted together. Each block is a massive steel plate with channels carved on the outside covered with bronze sheet. The water circulates upwards through the channels. The crystalliser is reciprocated vertically with a stroke of 20 mm, dropping at the rate of withdrawal of the ingot and rising more rapidly. A lubricant is applied to the crystalliser walls. Figure 3 shows an installation with four identical units disposed in line to cast simultaneously four ingots of square cross-section from a ladle of 65-ton capacity. Figure 4 shows a semi-continuous installation (in which the steel from the ladle proceeds to one or

Card3/4

SOV/122-59-6-13/27  
The Design of Plant for the Continuous Casting of Steel

several ingots of relatively short lengths which are being continuously withdrawn from the crystalliser) for casting square ingots, mainly of nickel-chrome stainless steel with titanium addition. The installation has two units, each capable of casting a single ingot of 175 x 600 mm or two ingots of 175 x 300 mm, simultaneously. Each ingot can reach 7.5 m in length. The steel is melted in an electric furnace of 20-ton capacity. The installation has interchangeable crystallisers for casting one or two ingots simultaneously. The reciprocating crystalliser drive is mounted on a platform which is withdrawn, together with the crystalliser, when the ingots are being removed. The drawing out of the ingot is performed by a mechanism guided along two round columns. The vertical motion is actuated by an electric cable hoist. There are 4 figures and 1 table.

Card 4/4

KAUSHANSKIY, D.A., inzh.; MOSKALENKO, V.A., inzh.

Converter of a butane dehydrogenation unit. Khim.mash. no.3:3-5  
My-Je '61. (MIRA 14:5)  
(Butane) (Converters) (Dehydrogenation)



KAUSHANSKIY, E. L.

Apparatus for determining the quality of thermite welding.  
Avtom., telem.i sviaz' 3 no.7:25-26 J1 '59.  
(MIRA 12:12)

1. Nachal'nik otdela sluzhby signalizatsii i svyazi Odesskoy  
dorogi.  
(Welding--Testing)

3(7)

SOV/50-59-10-4/25

AUTHORS: Rayevskiy, A. N., Kaushanskiy, E. L.

TITLE: Formation of Late Slippery Ice

PERIODICAL: Meteorologiya i gidrologiya, 1959, Nr 10, pp 22 - 24 (USSR)

ABSTRACT: On April 17-18, 1957 formations of thick, oval, slippery ice were found on many sections of the Odessa Railroad Line (Zatish'ye - Mordarovka - Kotovsk - Slobodka). This section was characterized by intense action of cyclones over the central and southern regions of the European part of the Soviet Union, over the Black Sea, and the Eastern Mediterranean. This cyclone action is described here in detail. In a summary the authors point out that in the period of the formation of slippery ice, i.e. during the night from April 17 to 18, temperature rose up to  $+2, +3^{\circ}$ , and the specific humidity up to 4.4 g/kg, owing to the advection of warm and humid air masses from the South at an altitude of about 1.5 km. An air temperature drop from  $+3, +4^{\circ}$  to  $-1, -2^{\circ}$  in the cyclone back was observed almost simultaneously over the Ukraine in the troposphere layers near the ground at overcast sky. This temperature drop was due to the cold advection at the southern edge of the anticyclone over the northern half of the

Card 1/2

Formation of Late Slippery Ice

SOV/50-59-10-4/25

European part of the Soviet Union. When the air temperature attained  $+2.9^{\circ}$  at the upper inversion limit (altitude: 1620 m), temperature dropped simultaneously by  $2-3^{\circ}$  in the layer below inversion. As a result, the drops passed through an air layer at a temperature of below zero, fell on objects near the ground, and caused the deposition of atmospheric ice. The article is concluded with a description of the course of this phenomenon from April 17, 19 p.m. to April 18, 10 a.m. There is 1 figure.

Card 2/2

KAUSHANSKIY, L. I. 11G

2a

Solubility of tooth enamel. L. I. Kaushanskiy. *Stomatologiya* 1946, No. 1, 15-20. *In vitro* expts. on soly. of enamel of healthy and carious teeth were performed in which the following sequence of solvents was used: water, 0.1 N AcOH, 0.05N lactic acid, 0.1N citric acid, 0.1N HCl, and water. The soly. is generally directly dependent on the degree of disson. of the acid. The enamel from unhealthy teeth was found to be 43.5% more sol. than that of healthy teeth, in the case of AcOH; in lactic acid the difference was up to 111%, while in citric acid it was 213%. Water had a slight soly. effect on carious teeth, esp. after these had been subjected to the acid soly. expts. G. M. Kosolapoff

ASM-AIA METALLURGICAL LITERATURE CLASSIFICATION

KAUSHANSKIY, L.I.

//E

Mineral composition of hard tooth tissues in children with disturbed diet. L. I. Kaushanskiy (Leningrad State Stomatol. Inst.). *Stomatologiya* 1948, No. 7, 14-16.--- Analysis of tooth compn. of children which survived the Leningrad siege (a period of severe malnutrition) showed

that the enamel of already formed teeth did not differ in P and Ca levels from normal, but a slight increase of Ca/P ratio was sometimes noted. Possibly the lapse of 3 yrs. after the experience before the analyses were made might be responsible for the results. G. M. Kowaloff

KAUSHANSKIY, L. I.

Certain data on formalin creams used in dental therapy.  
Stomatologiya, Moskva no.2:18-21 1951. (CLML 20:11)

1. Of the Department of Therapeutic Stomatology (Head —  
Prof. I. A. Begel'man), Leningrad Medical Stomatological  
Institute.

KAUSHANSKIY, M.Z.; SALITA, Kh.M.

Two cases of "thoracic stomach". Probl.tub. no.8:109-110 '62.  
(MIRA 16:9)

1. Iz Moldavskogo nauchno-issledovatel'skogo instituta tuberkuleza (dir. - kand.med.nauk V.G.Sokol) i klinicheskoy bol'nitsy no.4 (glavnyy vrach M.A.Ashunov), Kishinev.  
(STOMACH---ABNORMALITIES AND DEFORMITIES)  
(TUBERCULOSIS)

KAUSHANSKIY, M.Z.

Study of pulmonary tuberculosis. Zdravookhraneni 4 no.5:25-31  
S-0 '61. (MIRA 14:11)

1. Iz Moldavskogo nauchno-issledovatel'skogo instituta tuberkuleza  
(direktor kand.med.nauk V.G.Sokol).  
(TUBERCULOSIS)



KAUSHANSKIY, M.Z.: FISHOV, L.M.

A case of spontaneous pneumothorax following a closed  
thoracic trauma. Zdravookhraneniye 6 no.2:56-57 Mr-Apr'63.  
(MIRA 16:10)

1. Iz Moldavskogo nauchno-issledovatel'skogo instituta tu-  
berkuleza (dir. - kand.med.nauk M.A.Burlachenko)

\*

BURLACHENKO, M.A., kand. med. nauk; SIGAL, L.D.; KAUSHANSKIY, M.Z.;  
PEL'TIN, K.K.; KRAVETS, I.G.; ZDANOVICH, O.A.; ERMAN, I.D. (Kishinev);  
MIL'SHTEYN, P.V. (Bel'tsy); ETLIS, S.S. (Bendery); MISHCHENKO, S.A.;  
ROYTIKH, R.M. (Tiraspol'); VASSERMAN, Z.S. (Soroki)

Role of artificial pneumothorex in the compound treatment of  
pulmonary tuberculosis. Probl. tub, no 7:24-29 '63.

(MIRA 18:1)

1. Iz Moldavskogo instituta tuberkuleza (direktor - kand. med.  
nauk M.A. Burlachenko).

KAUSHANSKIY, N.I.

Concerning the analogy of the Duhamel integral for signals with  
a limited spectrum. Izv. vys. ucheb. zav.; radiotekh. 4  
no. 2:192-197 Mr-Apr '61. (MIRA 14:5)

1. Rekomendovana kafedroy teoreticheskoy elektrotekhniki Odesskogo  
politekhnicheskogo instituta.  
(Radiofrequency spectroscopy)

KAUSHANSKIY, P.L. (Krasnoyarsk)

Under the pressure of science. Nauka i zhizn' 27 no.12:53-61 D  
'60. (MIRA 13:12)

(Religion)

BOET, Yu. I.; PLASHIN, V. V.; KAUSHANSKIY, V. Ye.

Effect of magnesium oxide on the properties of tricalcium silicate.  
Izv. AN SSSR. Neorg. mat. 1 no. 7:1201-1206 J1 '65. (MIRA 18:9)

1. Moskovskiy khimiko-tekhnologicheskii institut imeni D. I.  
Mendeleyeva.

BUTT, Yu.M.; TIMASHEV, V.V.; KAUSHANSKIY, V.Ye.

Solid solutions of  $3\text{SrO} \cdot 8\text{SiO}_2$  in  $3\text{CaO} \cdot 8\text{SiO}_2$  and their properties. Izv.  
AN SSSR. Neorg. mat. 1 no.5:780-783 My '65. (MIRA 18:10)

1. Moskovskiy khimiko-tekhnologicheskii institut imeni Mendeleeva.

BUTT, Yu.M.; TIMASHEV, V.V.; KAUSHANSKIY, W.Ye.

Crystalline structure and hydration properties of tricalcium  
silicate and alite. Izv. vys. ucheb. zav.; khim. i khim.  
tekh. 8 no.3:453-458 '65. (MIRA 18:10)

1. Moskovskiy khimiko-tekhnologicheskoy institut imeni  
Mendeleeva, kafedra khimicheskoy tekhnologii vyzhushshikh  
veshchestv.

KAUSHIKAYTE M.P.

COUNTRY : USSR  
 CATEGORY : Diseases of Farm Animals. Diseases Caused by Bacteria and Fungi  
 ABS. JOUR. : RZhBiol., No. 6 1959, No. 25979  
 AUTHOR : Sadauskas, P.B.; Pechyulis, Ku.P.; Kaushikayte,\*  
 INST. : -  
 TITLE : Epizootology, Diagnosis and Measures for the Control of Brucellosis in Cattle in the Lithuanian SSR.  
 ORIG. PUB. : V sb.: Vopr. likvidatsii brutselleza v Pribaltisk. resp. 1 BSSR, Vil'nyus, 1958, 7-12  
 ABSTRACT : No abstract.

\*M.P.

CARD: 1/1

11

21



USSR / Microbiology. Sanitary Microbiology. Micro-  
biology of Food Products.

F

Abs Jour: Ref Zhur-Biol., No 2, 1959, 5519.

Author : Kaushikayte, M. P.  
Inst : Lithuanian Scientific Research Institute of An-  
imal Husbandry and Veterinary Medicine.  
Title : Determination of Isolability of Brucella from  
Cow's Milk in the Presence of Different Indexes  
of Immunobiological Reactions.

Orig Pub: Byul. nauchnotekhn. inform. Lit. n.-i. in-t  
zhivotnovodstva i veterinarii, 1957, No 1,  
65-67.

Abstract: The dependence of Brucella content in milk on  
the stage of brucellar infection and indexes  
of immunological reactions were clarified. An-  
imals can be the source of spread of the infec-

Card 1/2

21

USSR / Microbiology. Sanitary Microbiology. Micro-  
biology of Food Products.

F

Abs Jour: Ref Zhur-Biol., No 2, 1959, 5519.

Abstract: tion over several years. The author disting-  
uishes a group of animals with an acute course  
of the disease, in which Brucella are found in  
28-52.4% of cases, and another group in which  
the disease is chronic, but which has a posit-  
ive agglutination reaction and ring reaction  
with milk, in which Brucella are found in 22.5-  
45.4% of cases. In animals with a negative or  
doubtful agglutination reaction and a ring re-  
action with milk, but with a positive comple-  
ment-fixation test and an allergen reaction,  
the causal agents of brucellosis are not ex-  
creted with milk. -- L. G. Ivanova.

Card 2/2

KAUSHANSKIY, N.I., inzh.

Use of the VAF-85 device in the capacity of a phase meter with  
single-phase feed. Elek. stat. 35 no.1:92 Ja '64. (MIRA 17:6)

KAUSHILA, K. A.

"Autumn Frosts in the Lithuanian SSR." Cand Geog Sci, Vil'nyus  
State U, Min Higher Education USSR, Vil'nyus, 1955. (KL No 12,  
Mar 55)

SO: Sum. No. 670, 29 Sep 55-Survey of Scientific and Technical  
Dissertations Defended at USSR Higher Educational Institutions (15)

KAUSHILA, K.  
(Kaušyla, K.)  
3(5)

PHASE I BOOK EXPLOITATION

SOV/2485

Lietuvos TSR mokslu akademija. Geologijos ir geografijos institutas  
Geografinis metraštis, I (The Geographical Yearbook, I) Vilnius, 1958. 401 p.  
Errata slip inserted. 1,000 copies printed.

Sponsoring Agency: Lietuvos TSR geografine draugija.

Editorial Board: A. Basalykas, K. Bieliukas, Editor-in-Chief (President),  
V. Chomskis (Vice President), V. Gudelis (Vice President), K. Kaušyla,  
Managing Ed. (Secretary), S. Markelyte, and S. Tarvydas.

PURPOSE: This book is intended for geographers and for the general reader  
interested in the geography of Lithuania.

COVERAGE: The first volume of the Geographical Yearbook presents articles by 22  
authors covering aspects of the climatology, geomorphology, geology of the  
Quaternary, limnology, economic geography, etc. of Lithuania. The publication  
also includes a section devoted to book reviews and a chronicle of scientific  
events. Articles appear in Lithuanian with English and Russian resumes. Ref-  
erences accompany each article.

Card 1/6

The Geographical Yearbook, I (Cont.)

sov/2485

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SOV/2485

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The Geographical Yearbook, I (Cont.)

SOV/2485

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Card 5/6

S/236/63/000/001 007/015  
0403 17 17

NOTES: Kuchevskiy, A. A.

... of ...

... Kuchevskiy, A. A. ...  
1963, 99-101

... by Glavna ...  
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... transparency coefficients ...

S/235/43/77/1/1/1000/015

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and the 13th of 1977, and was given to

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the 13th of 1977, and was given by Bourner's law 1 - 1.2

1.2 - 1.2

$$p_2 = 0.875 - 0.015 e$$

Card 1.3

On the problem of ...

S/236 (63-000) 111-111  
2403, 2107

and for August-January

$$p_2 = 0.875 - 0.011 e.$$

Only February and July data correspond to the average

$$p_2 = 0.875 - 0.0127 e.$$

For a small region, relations (5-7) may be taken as constant to the first approximation. The effect of the inconstancy in the data is not very pronounced, under clear sky conditions. There are 2 figures and 3 tables.

ASSOCIATION: Institut geologii i geografii Akademii nauk Litovskoy SSR (Institute of Geology and Geography of the AS Lithuanian SSR)

SUBMITTAL: 1962

Card 3/3

KAUSHINIS, K. A., Cand Tech Sci -- "Effect of temperature-  
humidity factors <sup>upon</sup> ~~on the~~ outer walls made of structural  
ceramics in <sup>the</sup> ~~in~~ L<sup>U</sup>SSR." Minsk, 1961. (Min of Higher and Sec  
Spec Ed BSSR. Belorus <sup>ian</sup> Polytech Inst im I. V. Stalin) (KL,  
8-61, 244)

- 240 -

ACC NRI AR6035437

SOURCE CODE: UR/0276/66/000/008/VO17/VO17

AUTHOR: Kaushinis, S. K.

TITLE: Accuracy of relative locations of holes when parts are manufactured by stamping by elements

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 8B136

REF. SOURCE: Tr. Leningr. in-t aviats. priborostr., vyp. 46, 1966, 44-53

TOPIC TAGS: metal stamping, punching machine, manufacturing tolerance

ABSTRACT: The questions considered involve the accuracy with which the punching of round holes is carried out when parts are manufactured by stamping by elements. The formation of the positional errors of the holes and the dependence of these errors on the accuracy of manufacture of the base surfaces of the outer contour of the stock parts and the mounting surfaces of the stamp are analyzed. Data are presented on the magnitude of the component errors, obtained on the basis of experimental investigations. 4 illustrations. [Translation of abstract]

SUB CODE: 13, 14

Card 1/1

UDC: 621.961

L 29352-66 EWP(k)/EWI(1)/EWI(m)/ENP(t)/ETI IJP(c) JD/HM

ACC NR: AR5023751

SOURCE CODE: UR/0276/65/000/008/V017/V017

AUTHOR: Kaushinis, S. K.

TITLE: The problem of precision sectional stamping

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 8V123

REF SOURCE: Tr. Leningr. in-t aviats. priborostr., vyp. 43, 1964, 17-28

TOPIC TAGS: metal forming, metal cutting , metal stamping

ABSTRACT: Results are given of an investigation of precision stamping by the sectional stamping method. The primary cases of cutting with the setting-up of blanks by front and back stops at various positions of the location surface were discussed and the main factors affecting the precision and the shape of the cut parts determined. The basic relationships were confirmed experimentally. It was found that during the setting-up, errors in dimension and shape were initiated. At various positions of the location surface the proper errors of the setting-up and the occasional errors of the shape are differently summarized. Because of this the total error in the produced item is also different. The precision of the product obtained by cutting on

Card 1/2

UDC: 621.98.001.1

L 29352-66

ACC NR: AR5023751

universal stamps depends significantly on the thickness and dimensions of the blanks as well as on the accuracy of the operation. The orig. art. has 6 references.

SUB CODE: 13 / SUBM DATE: none

Card 2/2 CC



L 29435-66 EWT(m)/EWP(t)/EWP(k)/ETI IJP(c) JD/HW

ACC NR: AR5023750

SOURCE CODE: UR/0276/65/000/008/V017/V017

AUTHOR: Kaushinis, S. K.

TITLE: Precision edge cutting on universal die

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 8V122

REF SOURCE: Tr. Leningr. in-t aviats. priborostr., vyp. 43, 1964, 167-171

TOPIC TAGS: die, machine tool, metal cutting

ABSTRACT: Results of investigating precision cutting on universal die are given. It presents data on scattering of dimensions during cutting of the strip into blanks and during trimming of allowances left along the strip width. It was established that the precision of the dimensions obtained by cutting with universal dies depends mainly on the magnitude of the errors resulting from the setting up of the die. The magnitude of the constituent errors depends on the material thickness and the width of the blank. The orig. art. has: 1 fig. and 1 ref.

SUB CODE: 13/ SUBM DATE: none

Card 1/1

UDC: 621.961

LABORATORY, A. S.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210012-5"

Investigating the Process of Obtaining Magnesium Chloride from Dolomite." Cand Chem Sci, Inst of Chemistry and Chemical Technology, Acad Sci Lithuanian SSR, Vil'nyus, 1954. (RZhKhim, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (13)  
SO: Sum. No. 598, 29 Jul 55

KAUSITZ, JOZEF

"Atomova bateria; ako profesor Joliot-Curie vyraba atomovu energiu. (Vyd. 1.)  
Bratislava, Tatran (1950) 50 p. (Mala naucna kniznica, sv. 49) (The atomic  
battery; how Professor Joliot-Curie produces atomic energy. Illus.)

SO: East European, L. C. Vol. 2, No. 12, Dec. 1953

KAUSMAN, N.I.

Problems in the work of field teams in northern regions. Good. 1  
kart. no. 3:54-60 Mr '57. (MLRA 10:8)  
(Topographic surveying) (Geodesy)

PEDOTOV, Ya.A., otv.red.; GAL'PERIN, Ye.I., zamestitel' otv.red.; BARKANOV,  
N.A., red.; BERGEL'SON, I.G., red.; BROYDE, A.M., red.; KAMCHETSKIY,  
Yu.A., red.; KAUSOV, S.F., red.; KRASILOV, A.V., red.; KULIKOVSKIY,  
A.A., red.; NIKOLAYEVSKIY, I.F., red.; PENIN, N.A., red.; STEPANENKO,  
I.P., red.; VOLKOVA, I.M., red.; SVESHNIKOV, A.A., tekhn.red.

[Transistor devices and their applications; collection of articles]  
Poluprovodnikovye pribory i ikh primeneniye; sbornik statei. Moskva,  
Izd-vo "Sovetskoe radio." No.4. 1960. 423 p. (MIRA 13:5)  
(Transistors) (Electronic circuits)

FEDOTOV, Ya.A., otv.red.; BARKANOV, N.A., red.; BERGEL'SON, I.G., red.;  
BROYDE, A.M., red.; GAL'PERIN, Ye.I., red.; KAMENETSKIY, Yu.A.,  
red.; KAUSOV, S.F., red.; KONEV, Yu.I., red.; KRASILOV, A.V.,  
red.; KULIKOVSKIY, A.A., red.; NIKOLAYEVSKIY, I.F., red.;  
STEPANENKO, I.P., red.; VOLKOVA, I.M., red.; SMUROV, B.V.,  
tekhn.red.

[Semiconductor devices and their applications] Poluprovodni-  
kovye pribory i ikh primeneniye; sbornik statei. Moskva, Izd-vo  
"Sovetskoe radio". No.6. 1960. 333 p. (MIRA 13:12)  
(Semiconductors) (Transistors)

FEDOTOV, Ya.A., otv. red.; BERGEL'SON, I.G., red.; GAL'PERIN, Ye.I.,  
zam. otv. red.; KAMENETSKIY, Yu.A., red.; ~~KAUSOV, S.F., red.~~  
KONEV, Yu.I., red.; KRASILOV, A.V., red.; KULIKOVSKIY, A.A.,  
red.; NIKOLAYEVSKIY, I.F., red.; STEPANENKO, I.P., red.;  
VOLKOVA, I.M., red.; BELYAYEVA, V.V., tekhn. red.

[Semiconductor devices and their applications] Poluprovodnikovye  
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INVENTOR: Kausov, S. P.

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ABSTRACT: This Author's Certificate introduces a method for using high-temperature annealing to produce silicon crystals with a depletion surface layer containing an acceptor impurity such as aluminum or boron in concentrations from  $10^{19}$  to  $10^{17}$  cm<sup>-3</sup> for semiconductor devices such as diodes. The resistance of the surface layer is increased by adding a donor impurity to the crystal before annealing in a ratio of 0.1-0.4 to the concentration of acceptor impurity atoms.

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